Comparisons of Job Characteristics

Focus Occupation: Power Plant Operators (51-8013)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Compare Knowledge
Compare Skills
Compare Abilities
Compare Detailed Work Activities
Compare Tools and Technologies

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge	Similarity of Focus Occupation to Associated Occupation: 84

Focus Occupation: Power Plant Operators (51-8013)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Mechanical	6.8	14.8	12.8	<	Expanded education and/or training may be required
Mathematics	9.2	13.5	8.6	<<	Extensive education and/or training may be required
Physics	4.3	13.2	9.3	<<	Extensive education and/or training may be required
Public Safety and Security	6.9	12.7	9.7	<<	Extensive education and/or training may be required
Chemistry	4.8	12.6	9.8	<<	Extensive education and/or training may be required
Engineering and Technology	5.7	11.1	8.4	<<	Extensive education and/or training may be required
Biology	3.7	10.9	4.4	<<	Extensive education and/or training may be required
Production and Processing	6.0	10.8	4.2	<<	Extensive education and/or training may be required
Building and Construction	4.0	10.0	4.6	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills	Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Power Plant Operators (51-8013)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation

Operation Monitoring	6.6	11.9	12.7	0	Current skill level may be sufficient
Operation and Control	5.4	11.4	10.8	0	Current skill level may be sufficient
Quality Control Analysis	5.9	10.3	10.6	0	Current skill level may be sufficient
Equipment Maintenance	3.5	9.3	8.5	0	Current skill level may be sufficient
Troubleshooting	4.5	9.3	10.0	0	Current skill level may be sufficient
Repairing	3.4	9.0	7.9	<	A higher skill level may be required
Equipment Selection	3.3	7.4	6.2	<	A higher skill level may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities — Similarity of Focus Occupation to Associated Occupation: 90

Focus Occupation: Power Plant Operators (51-8013)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Perceptual Speed	7.4	9.8	10.7	0	Current ability level may be sufficient
Depth Perception	5.3	8.0	7.1	<	Some improvement in abilities may be required
Gross Body Equilibrium	3.2	7.1	5.0	<<	Extensive improvement in abilities may be required
Gross Body Coordination	3.9	6.9	4.2	<<	Extensive improvement in abilities may be required
Response Orientation	4.0	6.9	7.5	0	Current ability level may be sufficient
Wrist-Finger Speed	3.2	5.4	4.4	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common — Similarity of Focus Occupation to Associated Occupation: 87

Focus Occupation: Power Plant Operators (51-8013)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Work Activities	Exclusivity of Activity
Adjust production equipment/machinery setup	25
Clean equipment or machinery	20
Collect samples for testing	58
Control operation of compressors	76
Maintain consistent production quality	50
Maintain or repair industrial or related equipment/machinery	39
Maintain production or work records	19
Monitor production machinery/equipment operation to detect problems	27
Operate power driven pumps	66

Operate power generation equipment	84
Use hand or power tools	2
Use precision measuring tools or equipment	17

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus Occupation to Associated Occupation: 57

Focus Occupation: Power Plant Operators (51-8013)
Associated Occupation: Water and Wastewater Treatment Plant and System Operators (51-8031)

Tools and Technologies	Exclusivity
Air circulation and parts and accessories	40
Computers	1
Conveyors and accessories	18
Data management and query software	1
Electrochemical measuring instruments and accessories	9
Gas analyzers and monitors	10
Heating equipment and parts and accessories	19
Indicating and recording instruments	2
Industry specific software	1
Pumps	9
Separators	62
Water treatment and supply equipment	21

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.